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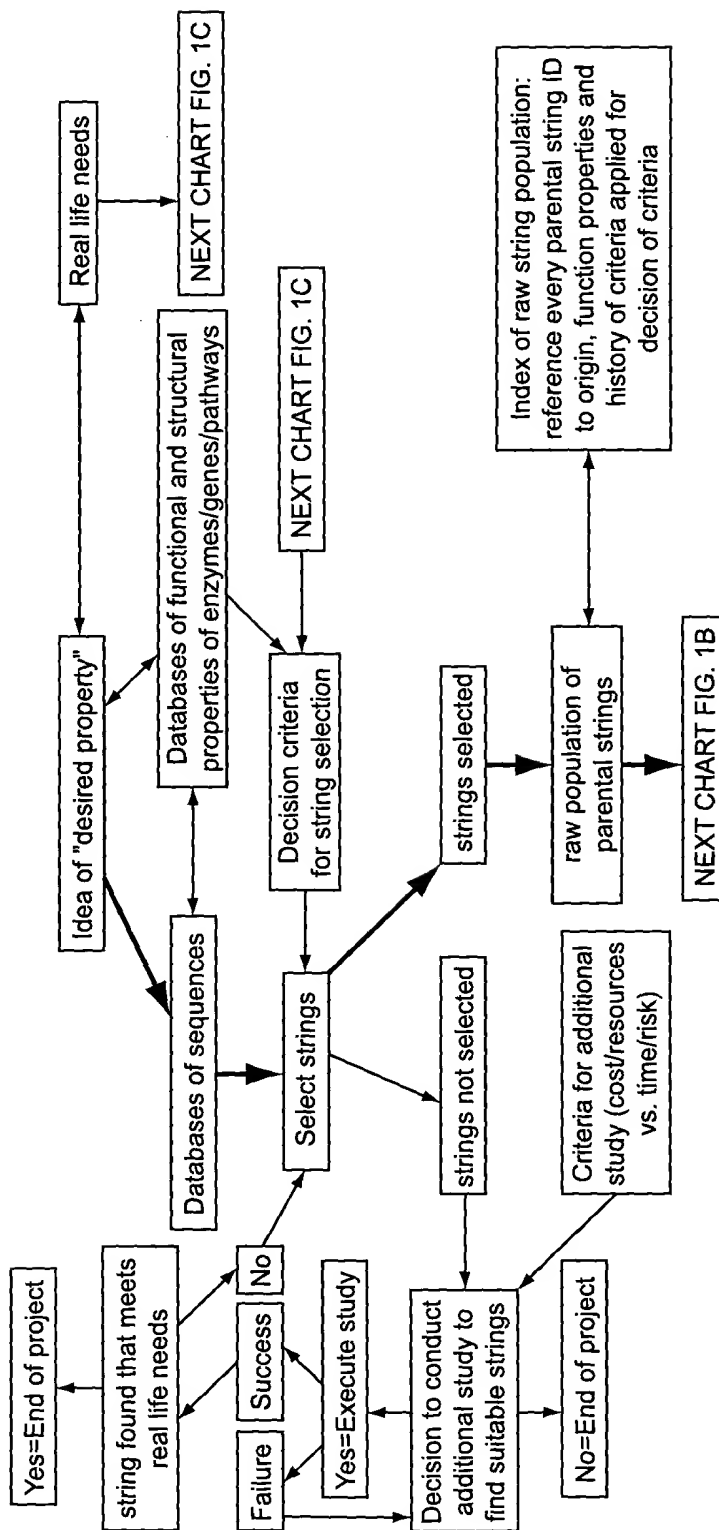


Fig. 1A

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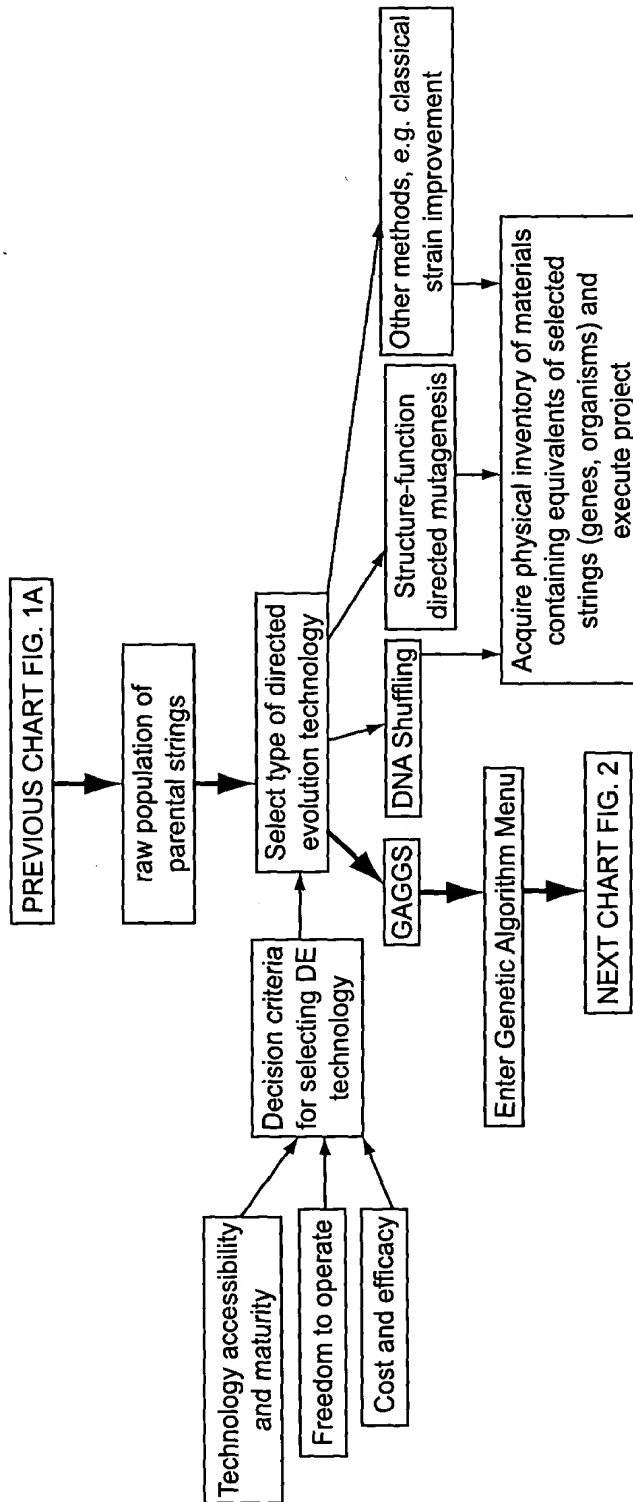
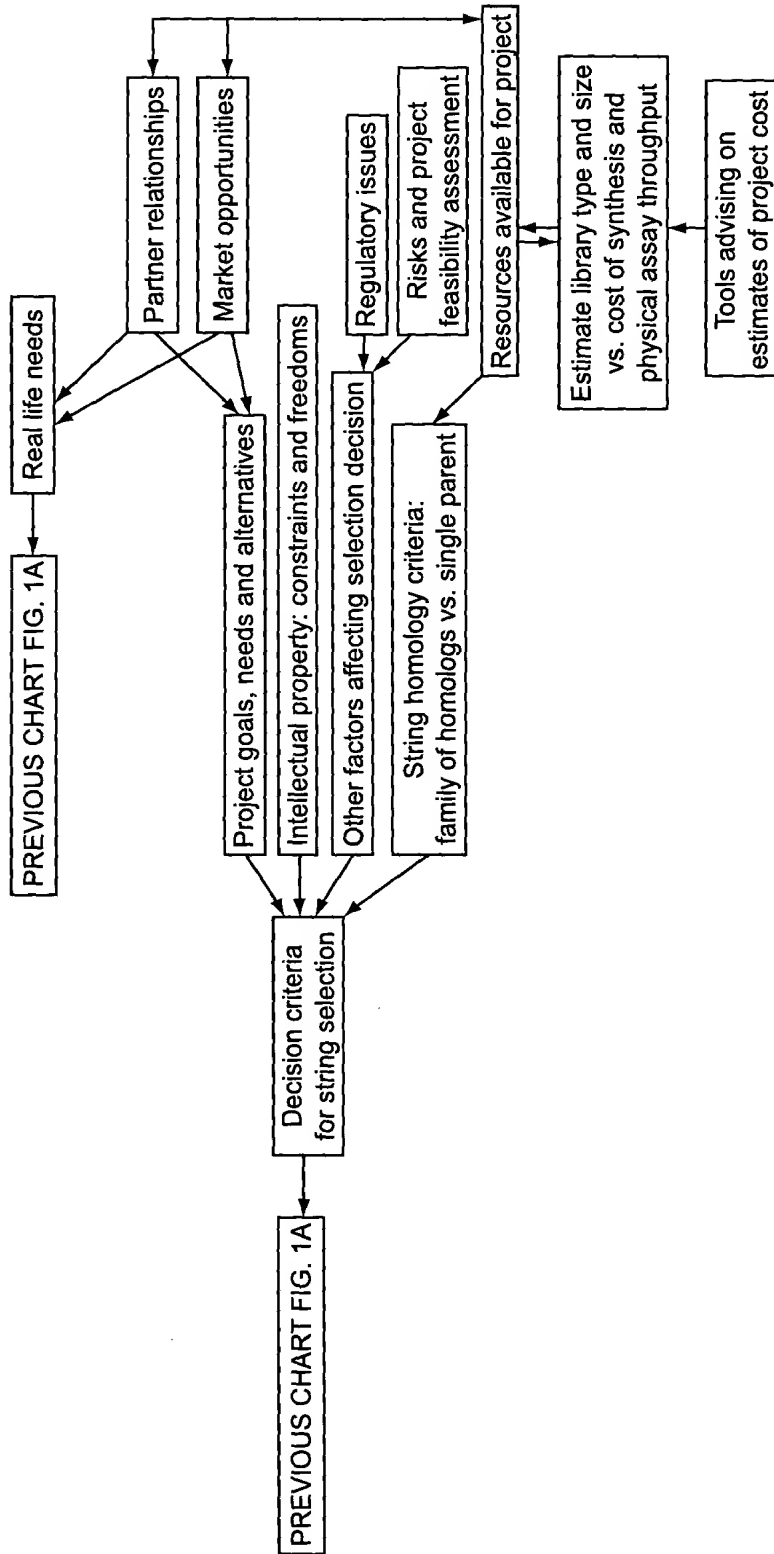


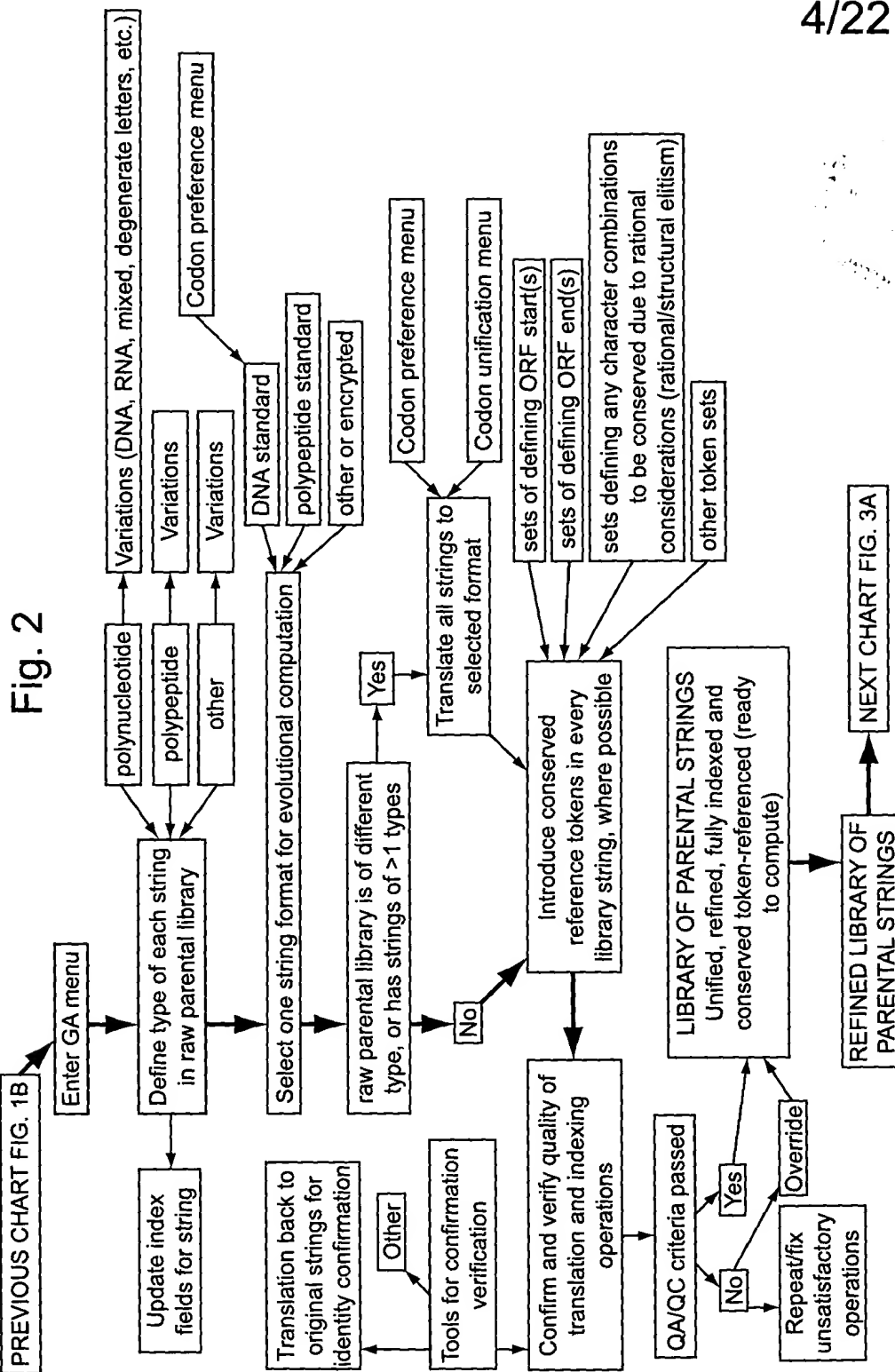
Fig. 1B



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Fig. 1C

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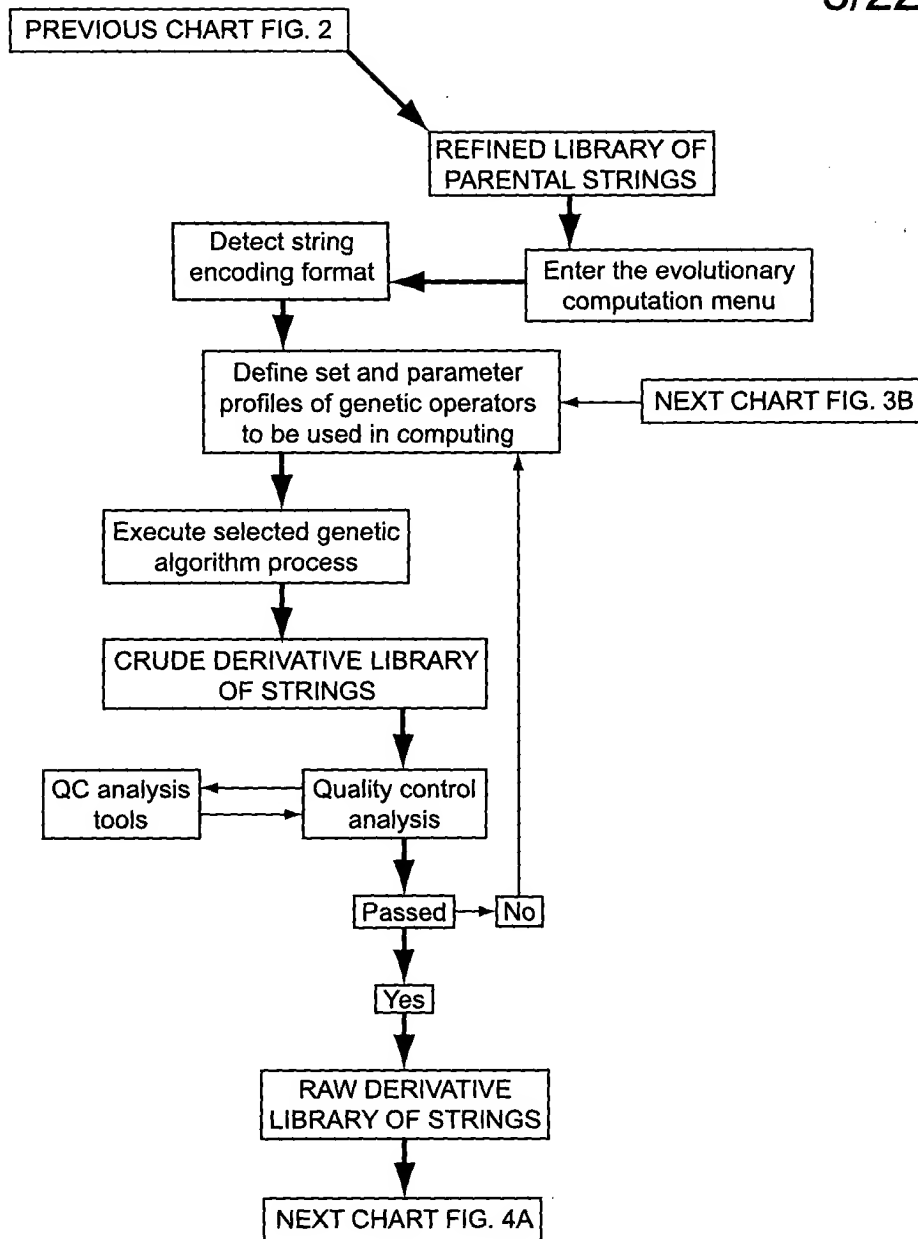


Fig. 3A

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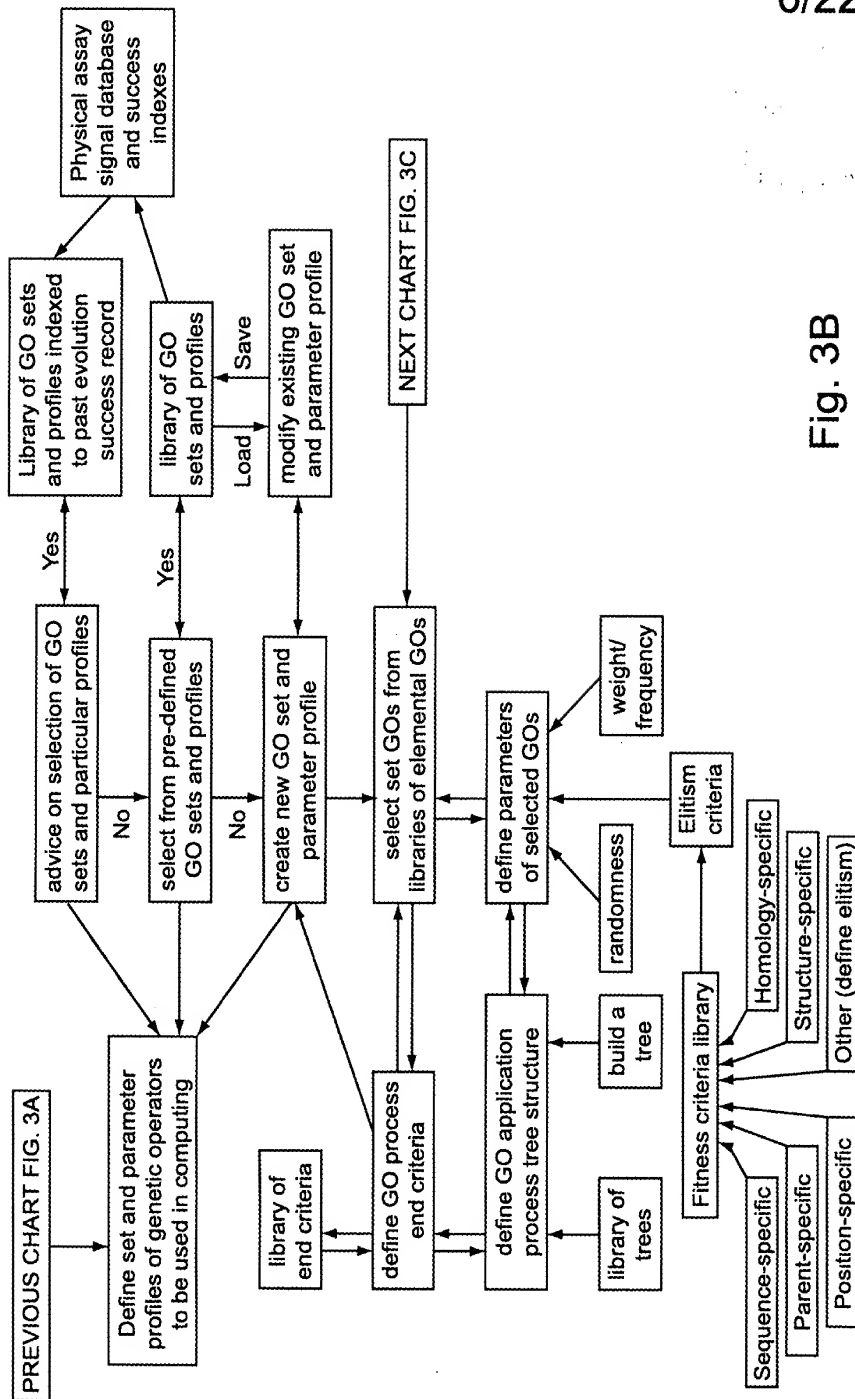


Fig. 3B

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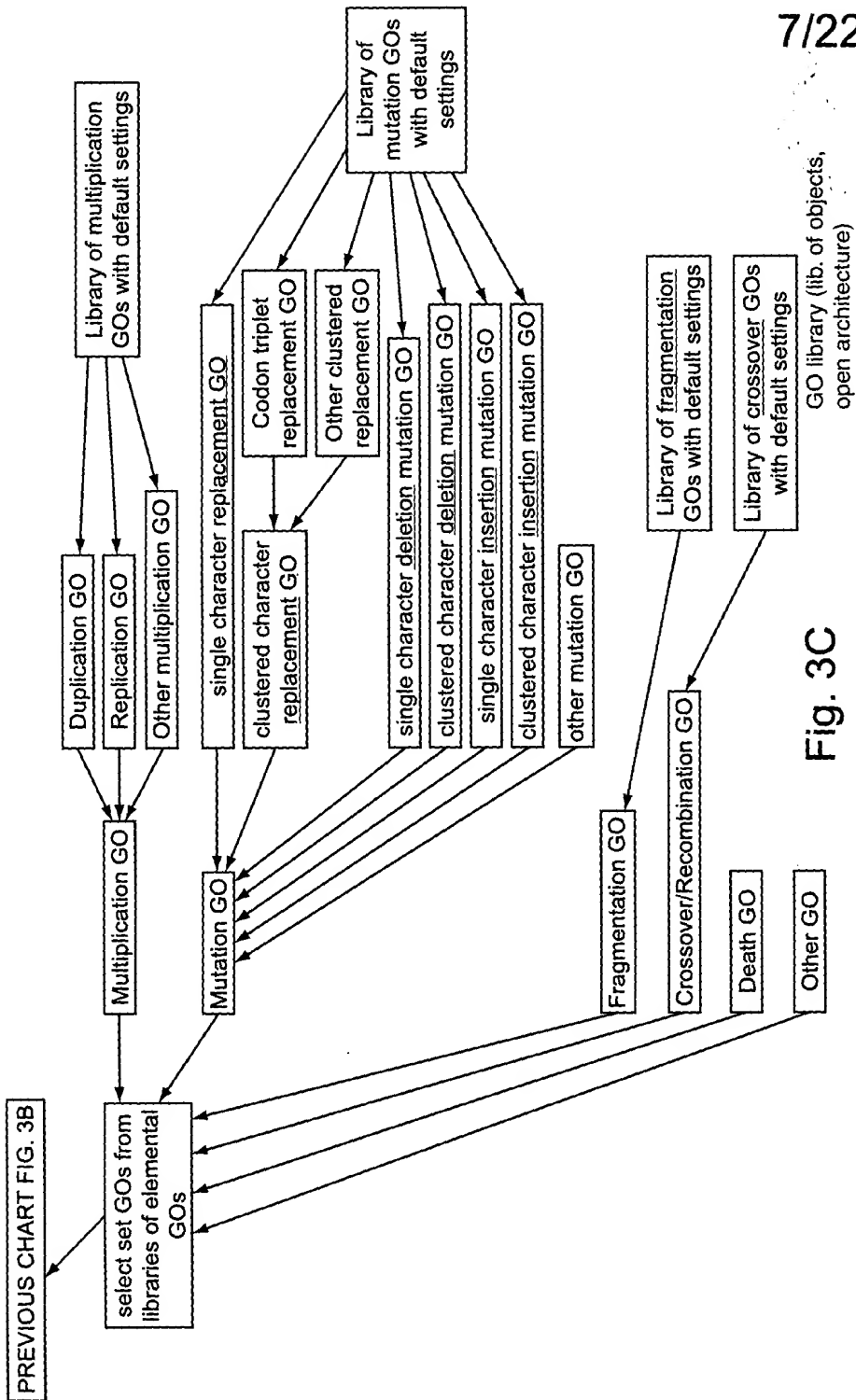


Fig. 3C

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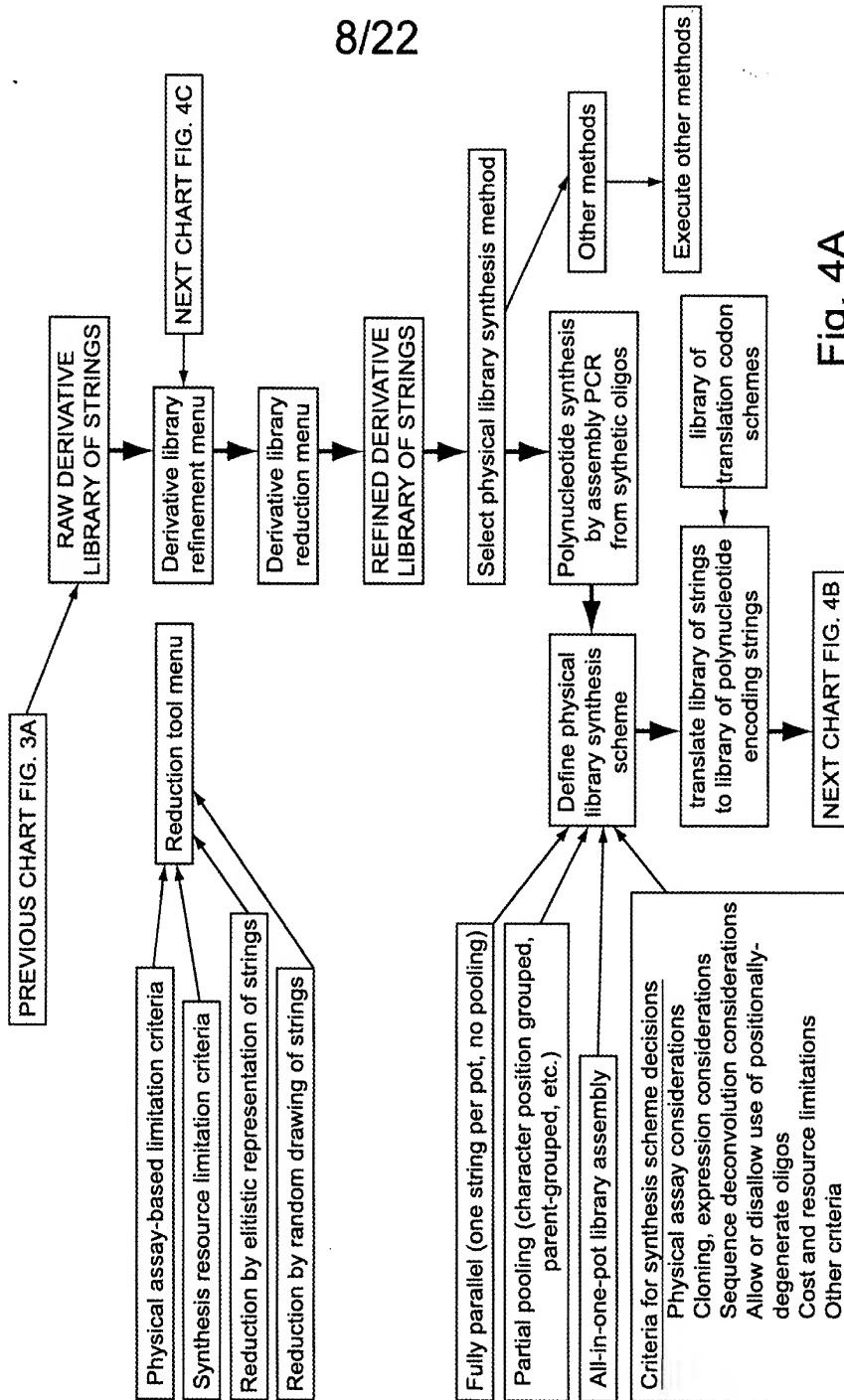


Fig. 4A

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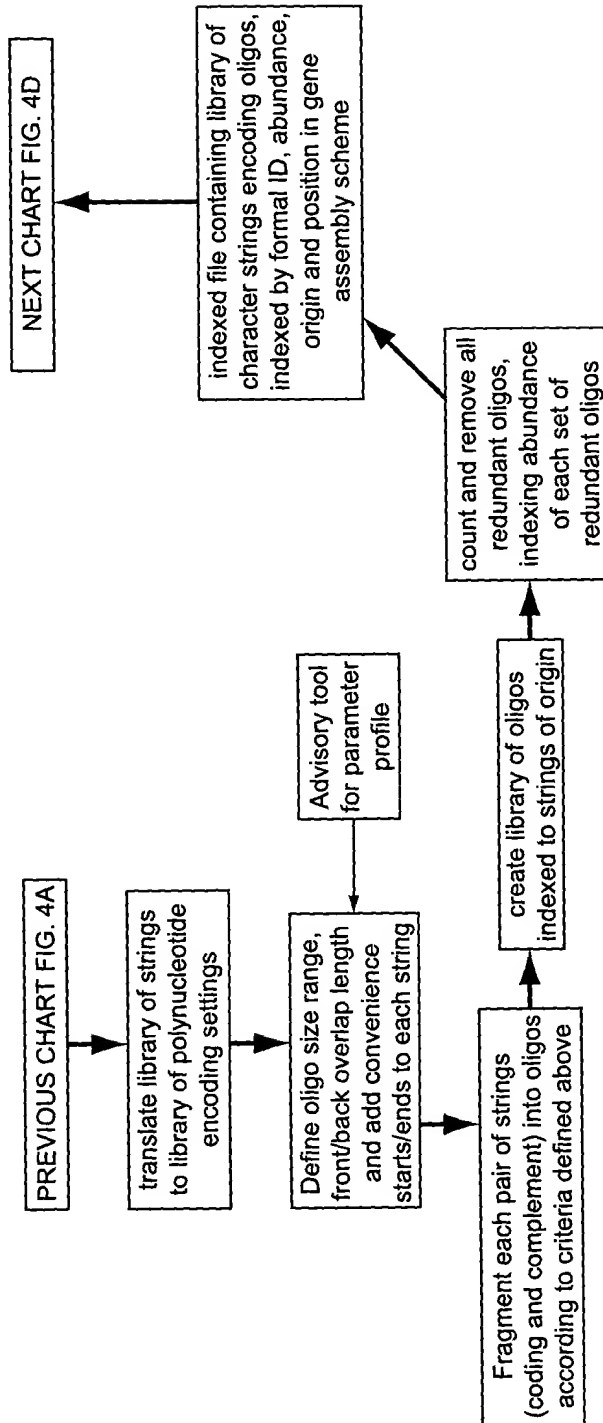


Fig. 4B

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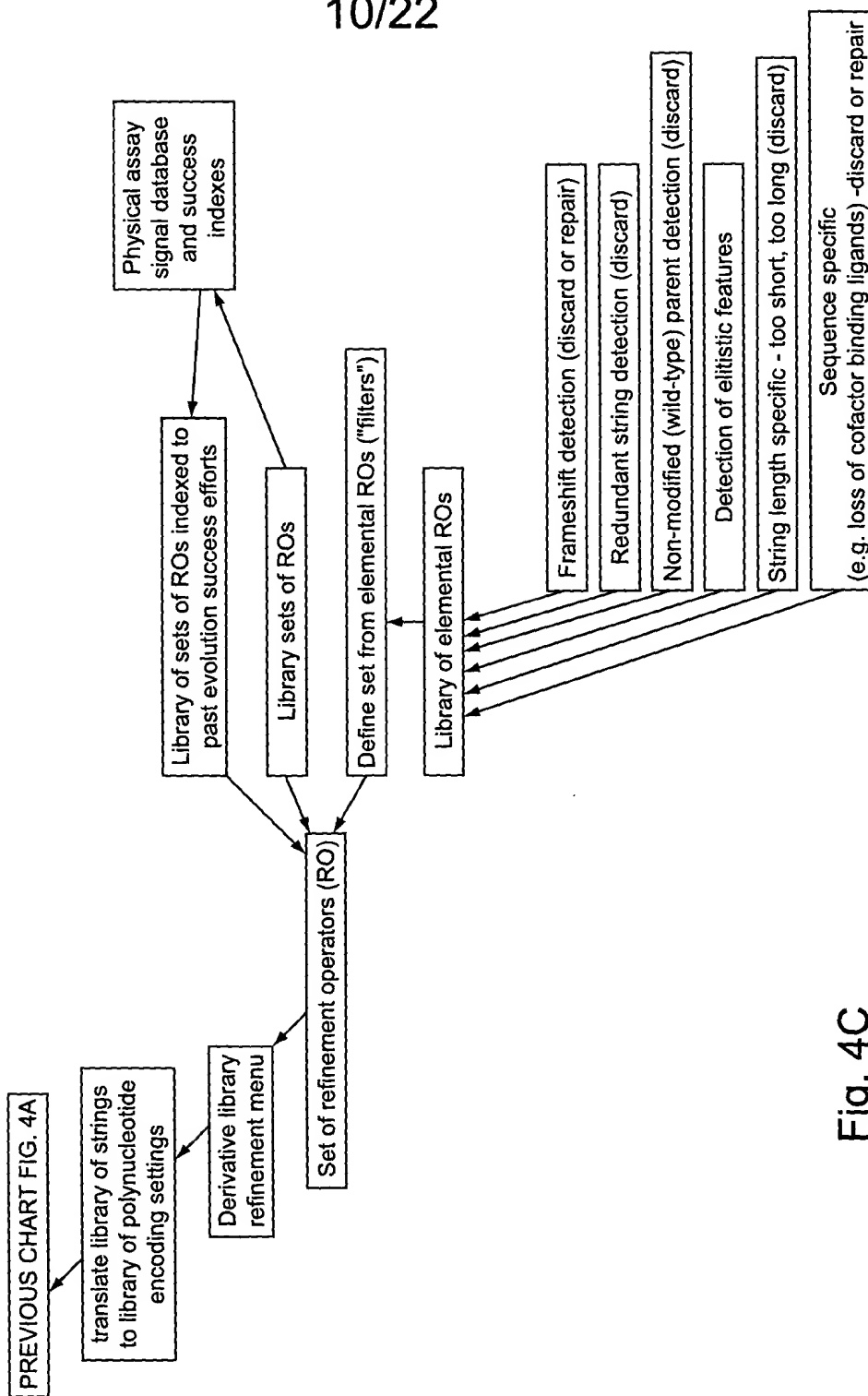


Fig. 4C

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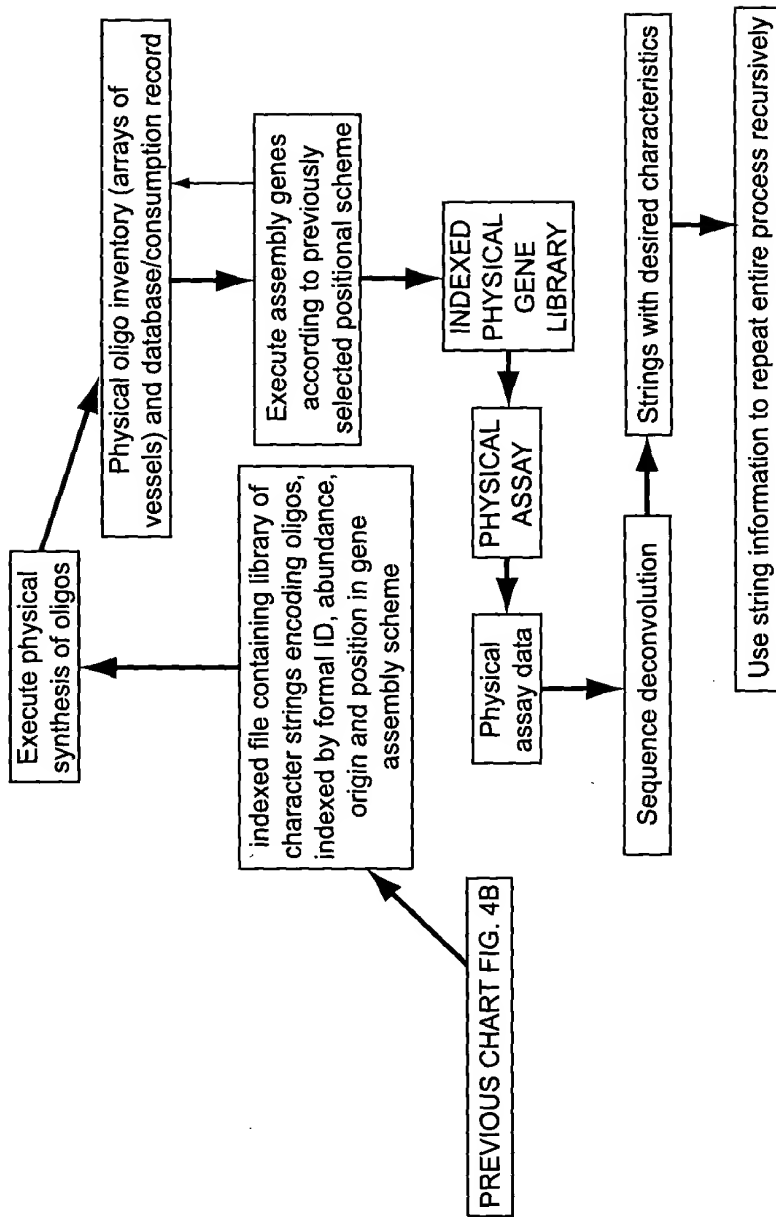


Fig. 4D

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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Percent Similarity

	1	2	3	4	5	6	7		
1		62.1	81.4	57.6	81.8	56.1	59.1	1	A27211 synthetic 309.PM
2	50.5		61.0	54.9	59.5	58.2	60.8	2	BACAPRQ subtilisin.PM
3	21.0	52.0		54.6	78.4	50.6	53.2	3	BACAPRS subtilisin.PM
4	54.4	63.3	62.3		52.0	64.6	67.9	4	BACSBTL subtilisin.PM
5	20.5	54.9	25.1	65.6		53.9	56.5	5	BACYAB subtilisin alk.PM
6	58.6	56.6	72.2	44.2	63.4		94.9	6	BLSC11594 subtilisin.PM
7	52.5	51.4	66.0	38.5	57.8	4.9		7	I82494 keratinase.PM
	1	2	3	4	5	6	7		

Fig. 5A

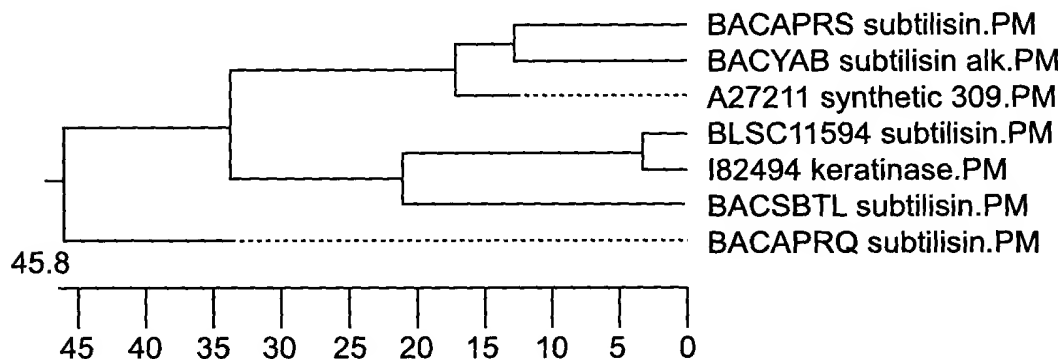


Fig. 5B

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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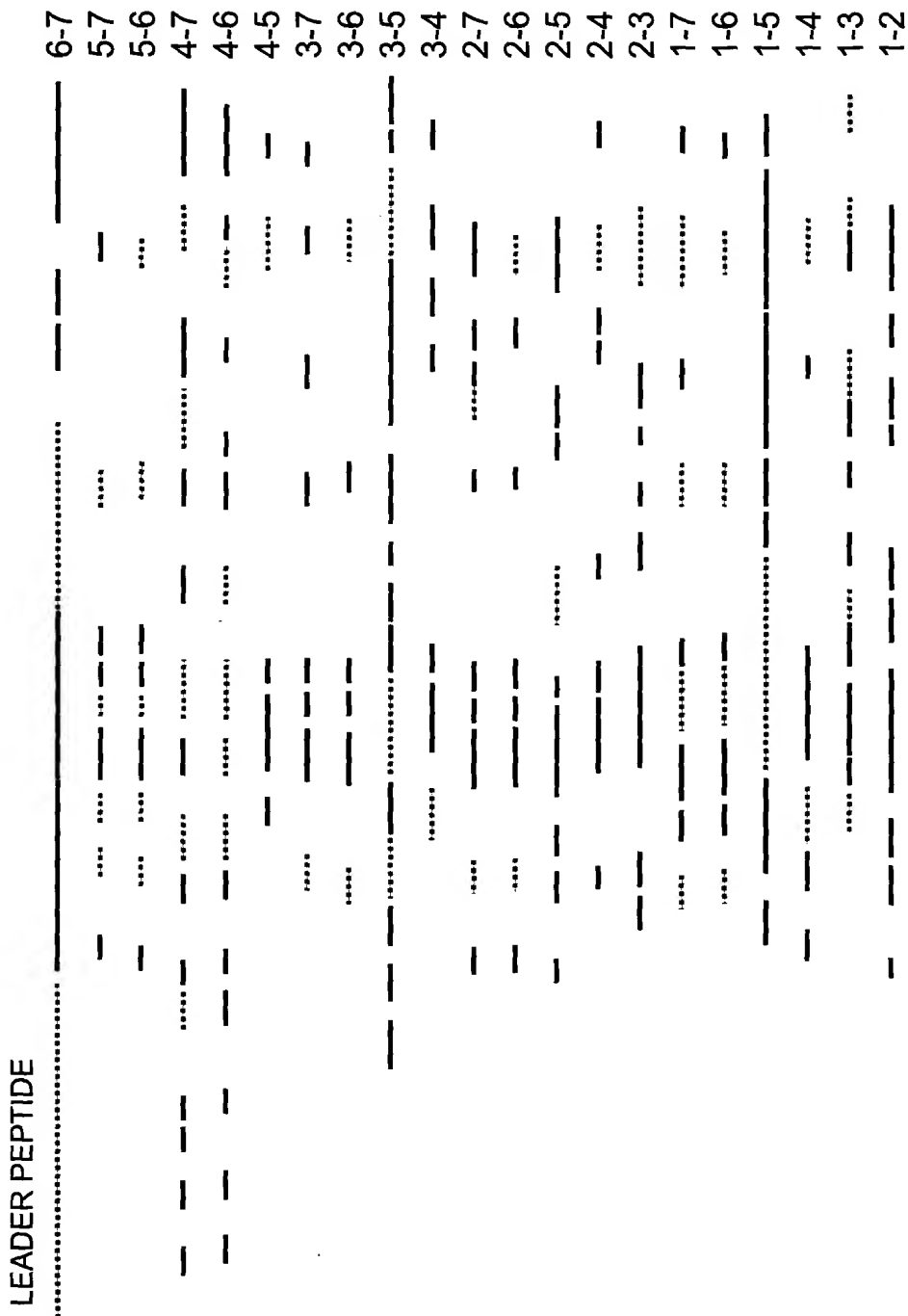


Fig. 6

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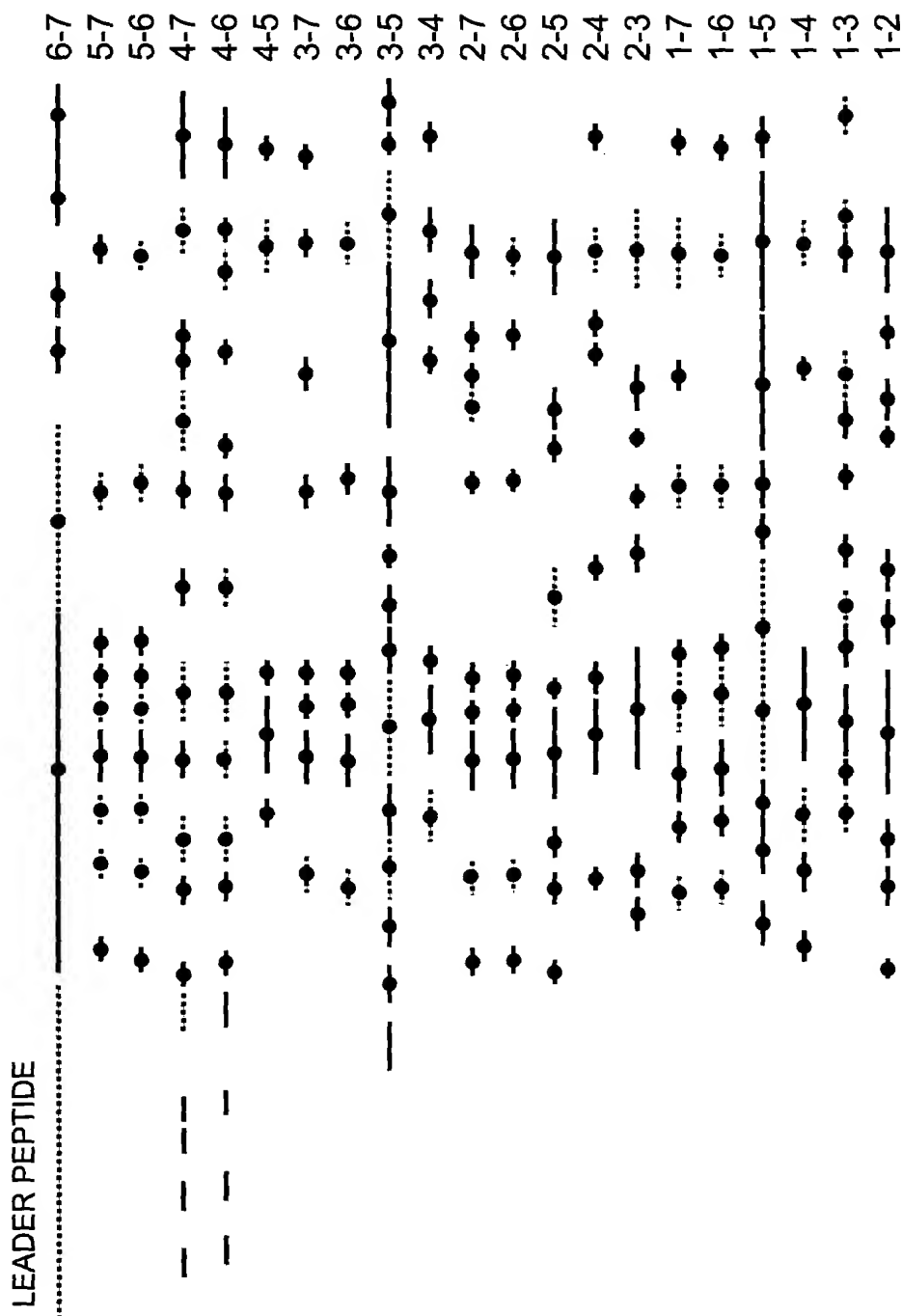


Fig. 7

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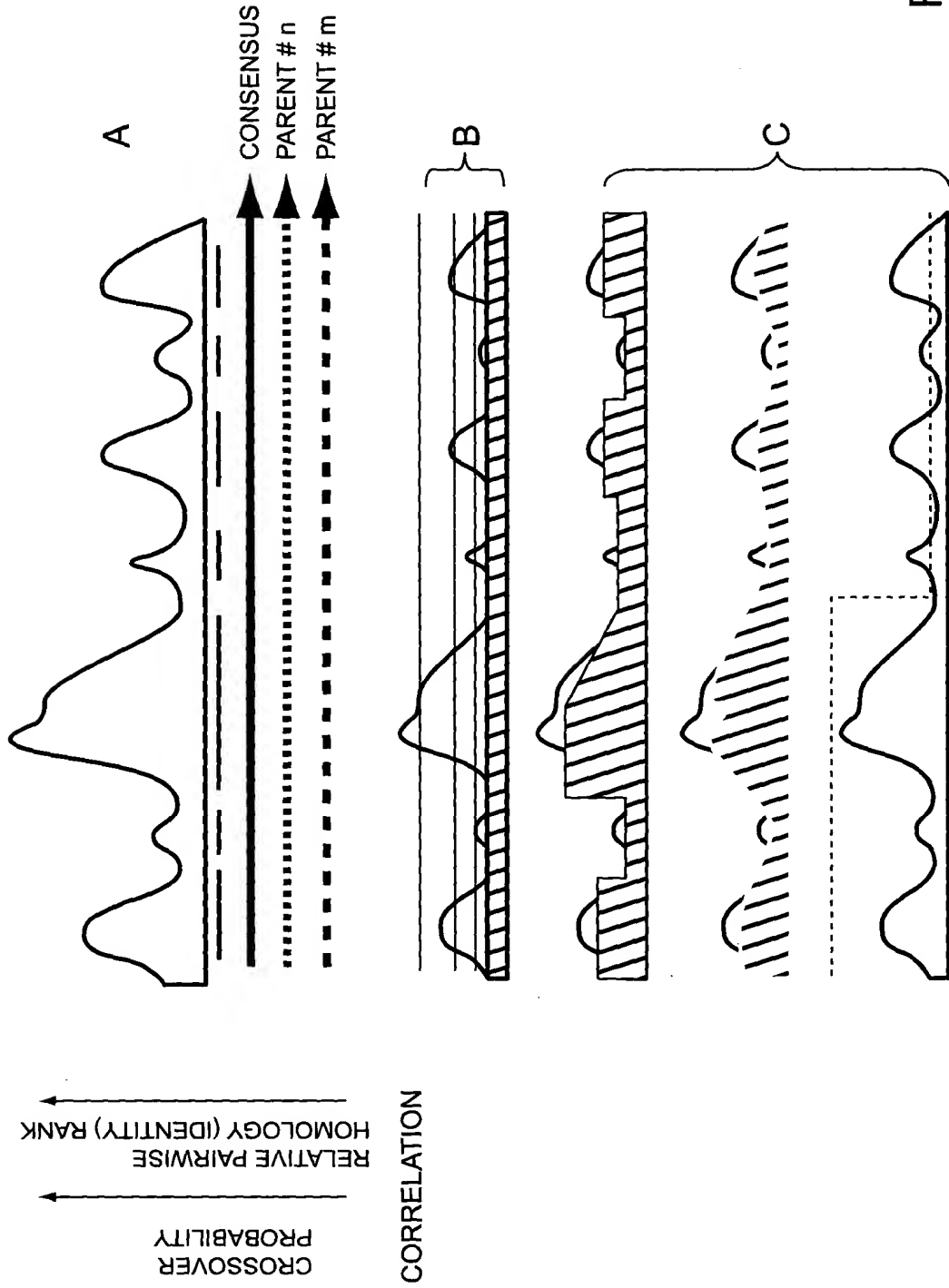


Fig. 8

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Introducing indexed crossover points marker into sequence of each of the parents

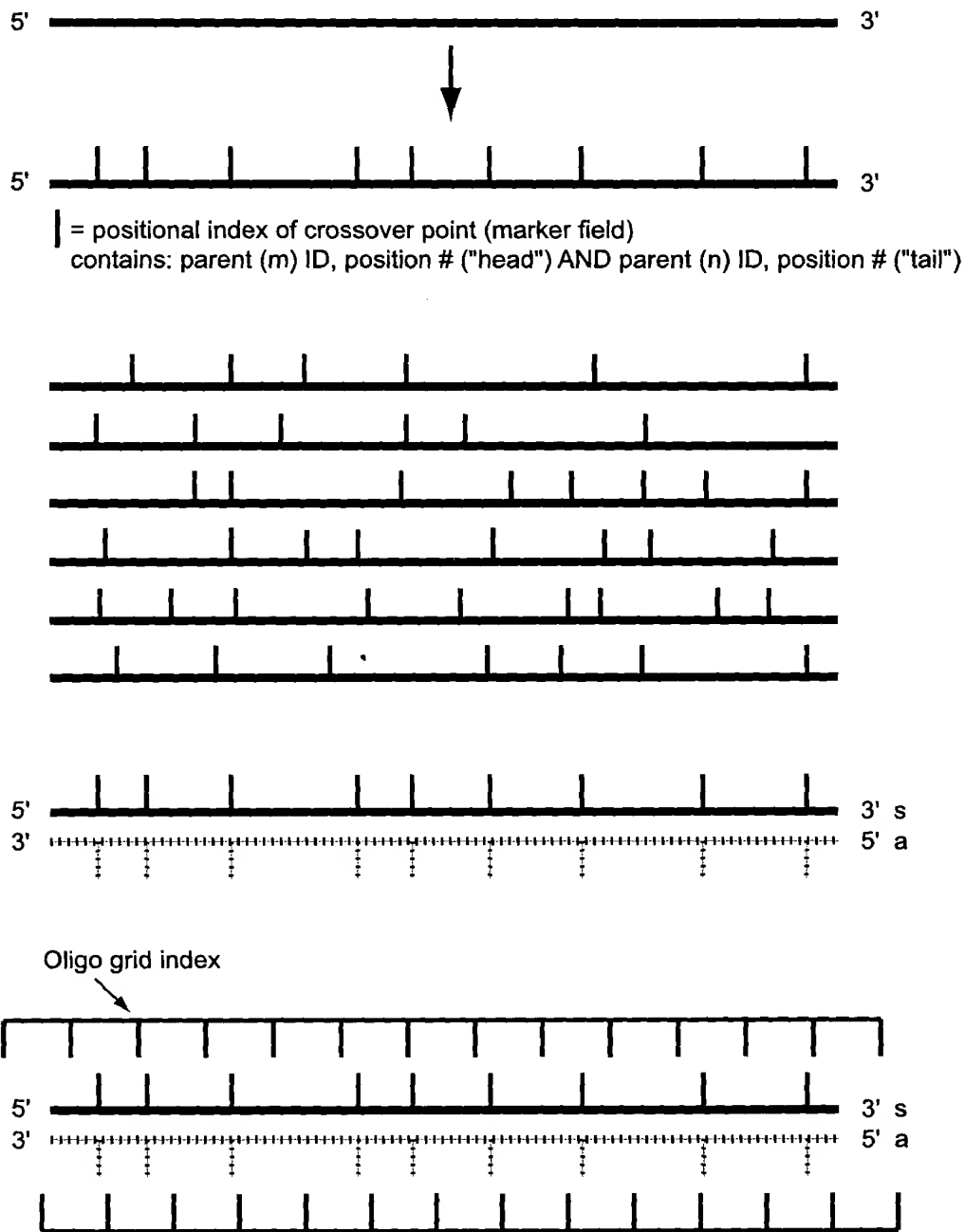
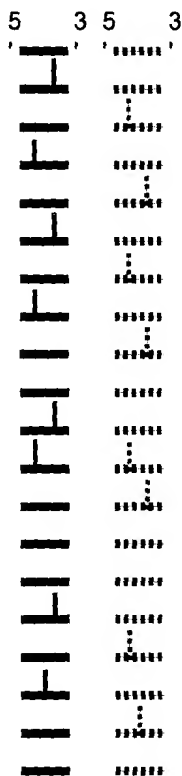


Fig. 9

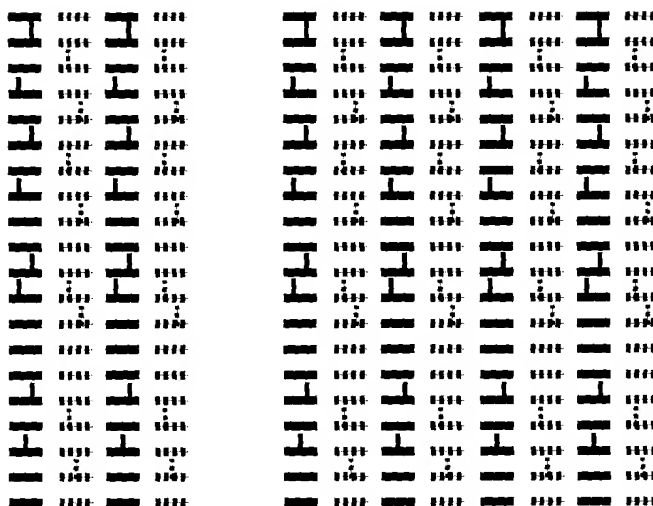
APPROVED	O G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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SET OF OLIGOS
TO ASSEMBLE A PARENT



COMPLETE INVENTORY OF
OLIGO SEQUENCES
(TO ASSEMBLE ALL PARENTS)



FIND ALL PAIRS OF PAIRS OF
OLIGO SEQUENCES WITH
MATCHING PAIRWISE
CROSSOVER INDEXES



SUB-INVENTORY OF OLIGOS WITH
CROSSOVER MARKERS

Fig. 10

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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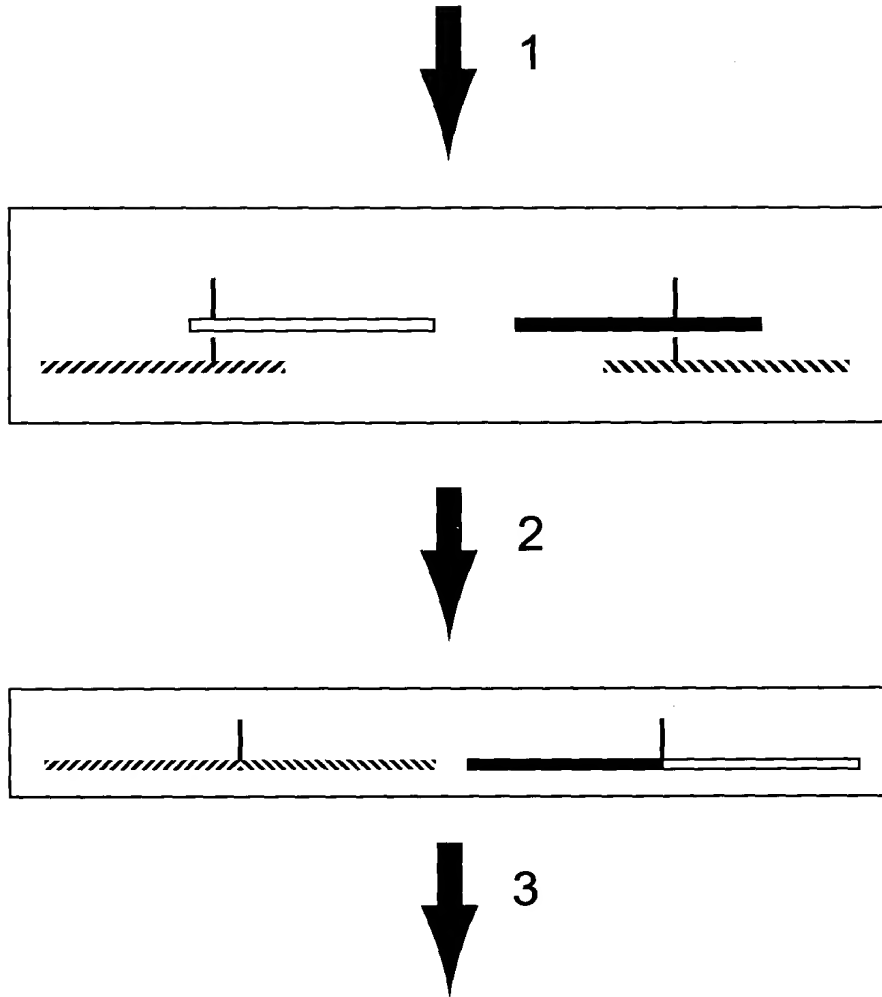


Fig. 11

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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Percent Similarity					
	1	2	3		
1		87.1	79.1	1	24DNT-45DO.ISP-L.prot
2	13.0		83.3	2	2NT-23DO.ISP-L.prot
3	21.7	17.9		3	NDO-PpG7.ISP-L.prot
	1	2	3		

Fig. 12A

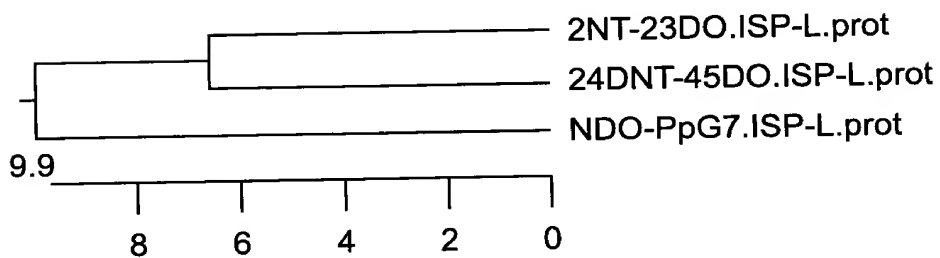


Fig. 12B

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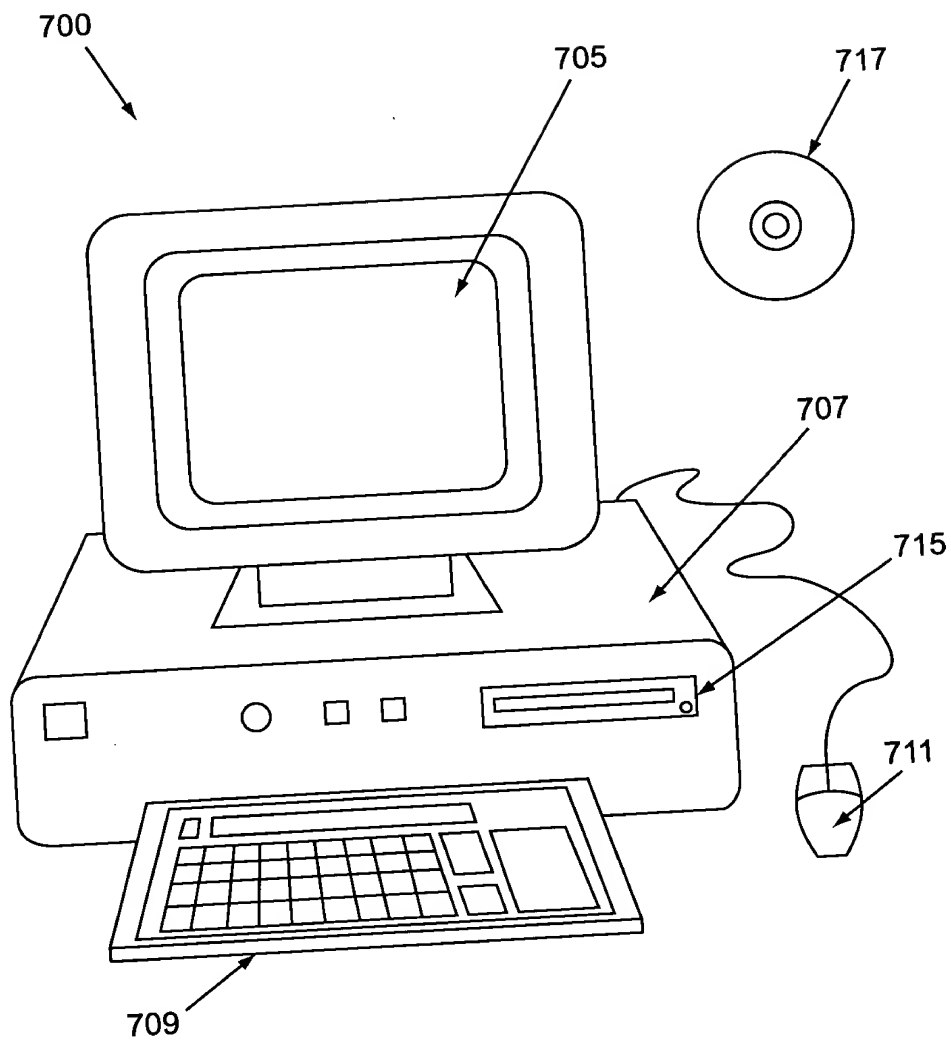
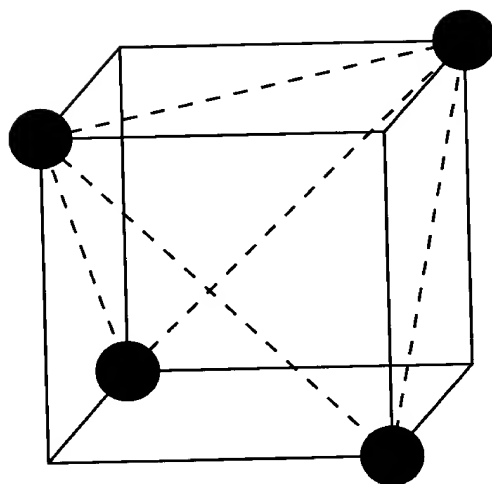


Fig. 13

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Geometric representation
Equal distance between
each nucleotide

Fig. 14A

A	-1 -1 +1
C	+1 -1 -1
G	-1 +1 -1
T	+1 +1 +1

Numeric representation

Fig. 14B

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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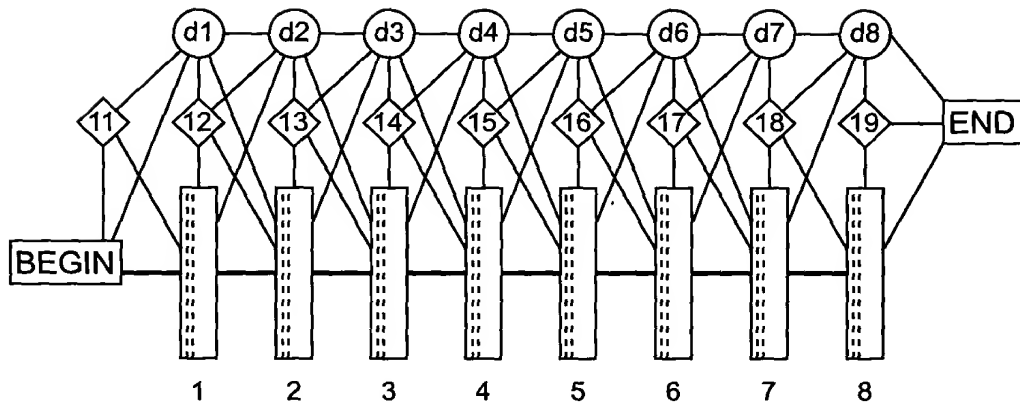


Fig. 15